AMENDMENTS TO THE CLAIMS

Please amend the claims as set forth below.

1. (Currently Amended) A wireless communication system for providing a service in a time division duplexing (TDD) mode and a frequency division duplexing (FDD) mode, the system comprising:

a mobile station for, during call setup, transmitting a duplexing mode determination factor to a base station, setting a TDD mode or an FDD mode as a reverse mode set by the base station, and setting up a channel for the set reverse mode ~~and a forward channel~~ to perform communication; and

a base station for, during call setup, receiving the duplexing mode determination factor from the mobile station, setting a reverse mode to the TDD mode or the FDD mode using the received duplexing mode determination factor, and ~~setting up~~assigning a reverse channel for the set mode ~~and a TDD mode for forward transmission to communicate with the mobile station,~~

wherein if the mobile station is located in a close area, the base station assigns to the mobile station a channel of a link in the TDD mode, and if the mobile station is located in a remote area, the base station assigns to the mobile station a channel of a forward link in the TDD mode and a channel of a reverse link in the FDD mode.

2. (Original) The wireless communication system of claim 1, wherein the mobile station generates the duplexing mode determination factor and reports the generated duplexing mode determination factor to the base station during predetermined periods in an active state.

3. (Original) The wireless communication system of claim 2, wherein the base station determines whether switching of a reverse mode of the mobile station is required each time a duplexing mode determination factor is received from the mobile station in the active state, and controls switching of the set mode and assigns a new channel to the mobile station to perform communication when mode switching is required.

4. (Previously Presented) The wireless communication system of claim 1, wherein

the duplexing mode determination factor includes at least one of power of a pilot signal received from the base station and geographical position information of the mobile station.

5. (Cancelled)

6. (Original) The wireless communication system of claim 4, wherein the duplexing mode determination factor is transmitted over a dedicated control channel for the set mode.

7. (Previously Presented) The wireless communication system of claim 1, wherein the duplexing mode determination factor is transmitted over a dedicated control channel for the set mode.

8. (Original) The wireless communication system of claim 1, wherein the base station assigns a frequency resource in a predetermined area among frequency resources available in the base station as reverse link resource for reverse transmission, and assigns the remaining available frequency resources to a forward link and a reverse link in a TDD mode.

9. (Original) The wireless communication system of claim 8, wherein in the TDD mode, the forward link and the reverse link have a predetermined time period, and the period includes a guard time of a predetermined time between switching times of the forward link and the reverse link.

10. (Original) The wireless communication system of claim 9, wherein channels for the forward link are assigned time slots beginning at a time slot in an area close to the guard time in order of mobile station nearest to the base station according to a position of the mobile station, detected from the duplexing mode determination factor.

11. (Original) The wireless communication system of claim 9, wherein channels for the reverse link for the TDD mode are assigned time slots beginning at a time slot in an area close to the guard time in order of mobile station nearest to the base station according to a position of the mobile station, detected from the duplexing mode determination factor.

12. (Currently Amended) A call control method in a base station for a wireless communication system, the base station being capable of communicating with a mobile station in a time division duplexing (TDD) mode and a frequency division duplexing (FDD) mode, the method comprising the steps of:

during call assignment to the mobile station, analyzing a duplexing mode determination factor received from the mobile station to determine whether the mobile station is located in a close area with respect to the base station; and

assigning to the mobile station a channel of a link in the TDD mode if the mobile station is located in the close area, and a channel of a forward link in the TDD mode and a channel of a reverse link in the FDD mode if the mobile station is located in a remote area.~~assigning a TDD channel to a forward link and a reverse link if the mobile station is located in the close area, and assigning a TDD channel to the forward link and an FDD channel to the reverse link to perform communication if the mobile station is located in a remote area with respect to the base station.~~

13. (Original) The call control method of claim 12, wherein a frequency resource in a predetermined area among frequency resources available in the base station is assigned as a resource for a reverse link for reverse transmission, and the remaining available frequency resources are assigned to a forward link and a reverse link in a TDD mode.

14. (Original) The call control method of claim 13, wherein in the TDD mode, the forward link and the reverse link have a predetermined time period, and the period includes a guard time of a predetermined time between switching times of the forward link and the reverse link.

15. (Original) The call control method of claim 14, wherein channels for a forward link are assigned time slots beginning at a time slot in an area close to the guard time in order of mobile station nearest to the base station according to a position of the mobile station, detected from the duplexing mode determination factor.

16. (Previously Presented) The call control method of claim 12, further comprising:

checking again a position of the mobile station to determine whether the mobile station is located in the close area or the remote area upon receiving a duplexing mode determination factor from the mobile station during communication with the mobile station; and

determining whether mode switching is required according to the checked position of the mobile station, and assigning a mode switching message and a new channel to perform communication if mode switching is necessary.

17. (Currently Amended) A call control method in a mobile station for a mobile communication system providing a time division duplexing (TDD) mode and a frequency division duplexing (FDD) mode, the method comprising the steps of:

generating a duplexing mode determination factor and reporting the generated duplexing mode determination factor to a base station when assignment of a call is necessary;

setting transmission and reception modes based on the received mode upon receiving a mode for a reverse link from the base station; and

sending a channel assignment request to the base station to perform communication with a channel assigned during channel assignment,

wherein if the mobile station is located in a close area, the base station assigns to the mobile station a channel of a link in the TDD mode, and if the mobile station is located in a remote area, the base station assigns to the mobile station a channel of a forward link in the TDD mode and a channel of a reverse link in the FDD mode.

18. (Previously Presented) The call control method of claim 17, further comprising the steps of:

generating information obtained using the duplexing mode determination factor and reporting the generated information to the base station during predetermined periods during communication; and

performing mode switching and performing communication with the new channel if a reverse mode switching request is received from the base station and a new channel is assigned by the base station.

19. (Original) The call control method of claim 18, wherein the information obtained using the duplexing mode determination factor, transmitted to the base station during the predetermined periods, is transmitted over a dedicated control channel for the reverse mode.

20. (Previously Presented). The call control method of claim 17, wherein the information obtained using the duplexing mode determination factor comprises at least one of power of a pilot signal received from the base station and geographical position information of the mobile station.

21-22 (Cancelled).

23. (Original) The call control method of claim 18, wherein the information obtained using the duplexing mode determination factor comprises power of a pilot signal received from the base station and geographical position information of the mobile station.

24. (Original) A base station apparatus for separately providing a service in a time division duplexing (TDD) mode and a frequency division duplexing (FDD) mode according to a distance between the base station and a mobile station, comprising:

a coding processor for performing TDD encoding and TDD decoding, and performing FDD decoding;

a diplexer for separating a reception signal at a frequency band assigned to the FDD mode from a signal at a frequency band assigned to the TDD mode;

a radio processor for down-converting a signal at a frequency band assigned to the FDD mode, and up- or down-converting a signal at a frequency band assigned to the TDD mode;

a TDD transmission/reception separator for separating transmission and reception of a TDD duplexing signal between the coding processor and the radio processor; and

a controller for controlling the TDD transmission/reception separator, the coding processor and the radio processor, and during call assignment to the mobile station, determining a reverse transmission mode according to a duplexing mode determination factor received from the mobile station and setting up a channel for the determined reverse mode and a forward channel.

25. (Original) A mobile station apparatus for a mobile communication system separately providing a service in a time division duplexing (TDD) mode and a frequency division duplexing (FDD) mode according to a distance between a base station and the mobile station, comprising:

a coding processor for performing TDD encoding and TDD decoding, and performing FDD encoding;

a diplexer for separating a reception signal at a frequency band assigned to the FDD mode from a signal at a frequency band assigned to the TDD mode;

a radio processor for up-converting a signal at a frequency band assigned to the FDD mode, and up- or down-converting a signal at a frequency band assigned to the TDD mode;

a TDD transmission/reception separator for separating transmission and reception of a TDD signal between the coding processor and the radio processor; and

a controller for controlling the TDD transmission/reception separator, the coding processor and the radio processor, and during call assignment, generating information obtained using a duplexing mode determination factor, delivering the generated information to the base station, and controlling communication using a channel assigned for a mode set by the base station.

26. (Currently Amended) A method for allocating resource in a wireless communication system, the wireless communication system including a plurality of mobile stations, a base station for allocating and communicating to the mobile stations, the method comprising the steps of:

dividing, by the base station, different a time division duplexing(TDD) bandwidth and a frequency division duplexing (FDD) bandwidth of system bandwidth;

receiving a mode determination factor form the mobile station; and

allocating at least one of TDD bandwidth and FDD bandwidth according to the mode determination factor,

wherein if the mobile station is located in a close area, the base station assigns to the mobile station a channel of a link in the TDD mode, and if the mobile station is located in a remote area, the base station assigns to the mobile station a channel of a forward link in the TDD mode and a channel of a reverse link in the FDD mode.

27. (Previously Presented). The method of claim 26, wherein the TDD bandwidth is greater than the FDD bandwidth.

28. (Previously Presented). The method of claim 26, wherein the TDD bandwidth includes at least one of downlink resources and uplink resources.

29. (Previously Presented). The method of claim 28, wherein the FDD bandwidth includes uplink resources.

30. (Previously Presented). The method of claim 29, wherein the allocating step comprises:

comparing the mode determination factor with a predetermined threshold;

allocating uplink and downlink resources of the TDD bandwidth if the mode determination factor is less than the predetermined threshold; and

allocating uplink resources of FDD bandwidth if the mode determination factor is greater than or equal to the predetermined threshold.

31. (Previously Presented). The method of claim 30, wherein the mode determination factor is a pilot signal strength, which at least one mobile station (MS) receives from the base station.

32. (Previously Presented). The method of claim 30, wherein the mode determination factor is geographical position information of the mobile station.

33. (Previously Presented). The method of claim 30, wherein the mode determination factor is a moving velocity of a mobile station.

34. (Previously Presented). The method of claim 30, wherein the mode determination factor is determined at least to be one of a pilot signal strength, which at least one MS receives from the base station, and the moving velocity of the mobile station.

35. (Currently Amended) A apparatus for transmitting and receiving apparatus in a wireless communication system, the wireless communication system including a plurality of mobile stations, a base station for allocating and communicating to the mobile stations, the apparatus comprising:

encoding processor for processing signal of TDD bandwidth signal and FDD bandwidth signal and operating TDD and/or FDD mode;

diplexer for dividing the TDD bandwidth signal and the FDD signal;

transmission/reception separator for dividing transmitting and receiving signal, sending the transmitting signal to the diplexer, sending the receiving signal to encoding processor; and

controller for controlling encoding processor, transmission/reception separator and diplexer, allocating TDD and FDD bandwidth resource using a mode determination factor to mobile station,

wherein if the mobile station is located in a close area, the base station assigns to the mobile station a channel of a link in the TDD mode, and if the mobile station is located in a remote area, the base station assigns to the mobile station a channel of a forward link in the TDD mode and a channel of a reverse link in the FDD mode.

36 (Previously Presented). The apparatus of claim 35, wherein the encoding processor comprises:

an FDD decoder for processing the received FDD signal and sending the processed FDD signal to the transmission/reception separator;

a TDD decoder for processing the received TDD signal and sending the processed TDD signal to the transmission/reception separator; and

a TDD encoder for processing the TDD bandwidth signal, and transmitting the processed signal to the transmitting and received separator.